

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/09746

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/122 A61K31/593 A61P9/04 A61P9/10 A61P9/12
A61P9/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, WPI Data, PAJ, EMBASE, PASCAL, SCISEARCH, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 679 394 A (EISAI CO LTD) 2 November 1995 (1995-11-02) cited in the application the whole document	1-12,19
X	KAWASHIMA HIDETOSHI ET AL: "Effects of vitamin K2 (Menatetrenone) on atherosclerosis and blood coagulation in hypercholesterolemic rabbits" JAPANESE JOURNAL OF PHARMACOLOGY, vol. 75, no. 2, October 1997 (1997-10), pages 135-143, XP009020469 ISSN: 0021-5198 cited in the application the whole document	1-12,19

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

14 November 2003

Date of mailing of the international search report

28/11/2003

Name and mailing address of the ISA

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PCT/EP 03/09746

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MH BEERS: "The Merck Manual of Diagnosis and Therapy" 1999, MERCK RESEARCH LABORATORIES, WHITEHOUSE STATION XP002260508 page 1654 -page 1658 ---	1-19
A	M. EDER: "Lehrbuch der Allgemeinen Pathologie und der Pathologischen Anatomie" 1984, SPRINGER VERLAG, HEIDELBERG XP002260509 page 345 -page 351 ---	1-19
X	EP 0 613 877 A (EISAI KAGAKU KK) 7 September 1994 (1994-09-07) page 2, line 5-8 ---	1-12,19
X	EP 1 153 548 A (UNILEVER PLC ;UNILEVER NV (NL)) 14 November 2001 (2001-11-14) claims 14,15 ---	1-12,19
X	GB 2 180 747 A (KREITZMAN STEPHEN NEIL) 8 April 1987 (1987-04-08) example 4 ---	13-17
X	DE 199 55 607 A (NOVEMBER AG GES FUER MOLEKULAR) 7 June 2001 (2001-06-07) column 3, line 46-52 ---	18
X	VERMEER C ET AL: "Role of K vitamins in the regulation of tissue calcification." JOURNAL OF BONE AND MINERAL METABOLISM. JAPAN 2001, vol. 19, no. 4, 2001, pages 201-206, XP001153227 ISSN: 0914-8779 the whole document ---	1-12,19
P,X	WO 03 013420 A (VERMEER CEER ;VITAK BV (NL)) 20 February 2003 (2003-02-20) the whole document ---	1-19

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International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy Although claim 19 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09746

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0679394	A	02-11-1995	DE 69501421 D1	19-02-1998
			DE 69501421 T2	23-04-1998
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			JP 8253415 A	01-10-1996
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